DO IT YOURSELF EMULATOR

) You will need a piece of perf-board, about 2 inches by 1 inch, holes on .100 :enter, two 10K ohm resistors, one .1 MFD capacitor, one single pole double :hrow switch, 5 feet wire wrap 30ga.

:) Remove the TIMEX rom, making sure not to remove the EXROM (see drawing), and 'lace on non-conductive foam.

3) Make up the 1 X 2 inch component board and place the resistors and capacitor on it as per drawing. Be especially careful that you know which leads are which!!

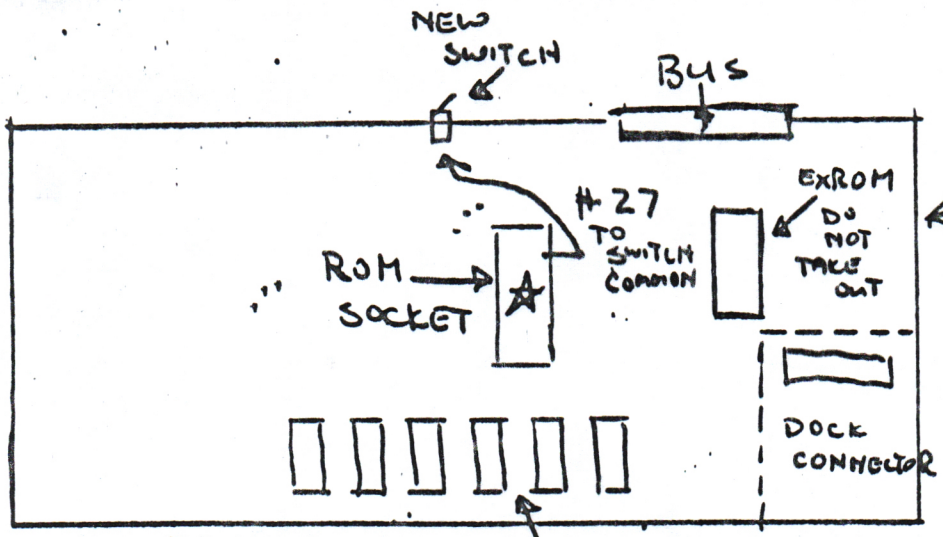
4) Solder a wire to the ROM socket on the 2068 computer board, to pin 27, and :ake this wire to the common lead on the switch, which should be put through the :ase by the monitor RCA plug. There is room for this by this area, and it will be out of the way when you are using the machine.

5) You should then solder the pins of the two ROM's together, attaching all except pin 27. These two pins should stick straight out from the piggyback unit, and one lead of each should go to the side of the resistors that are opposite the power coming in from pin(s) 28 of the ROM's. One side of the capacitor has to be taken to signal ground, which is pin 14 on the ROM's. After you have made all the connections to the perf-board, wrap the entire unit with tape to prevent any wires or contact points from shorting out to the case, or other components. After you have soldered the ROM's together, made all connections to the switch, perf-board and the ROM socket, replace the ROM unit and close the case up. I would suggest that you replace the ROM unit in the socket before you solder the two connections to pins 27, pin 28 and pin 14, as this will make it easier to judge how long the wires should be. Also, install the switch before you solder the wires to the leads. The two ROM's will piggyback snugly, and should be next to each other. It is a tight fit when the case top is replaced, and the top of the piggyback ROM unit touches the top piece which is the keyboard.

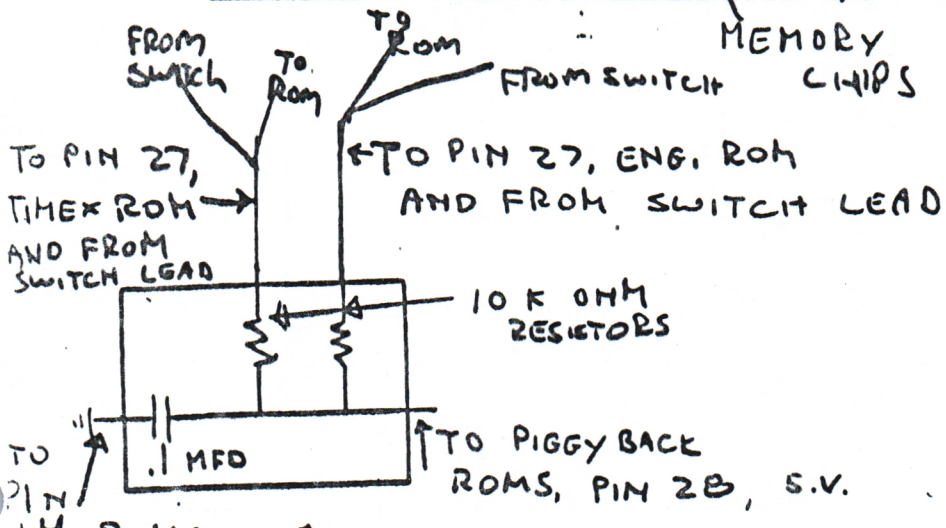
6) If you follow the plans, do not have any cold solder joints, you will have no problems in making this conversion. Also, whenever you change from one ROM to the other you should turn all power off, throw the switch and power up again.

If you need any info, or have a problem, you can reach me thru EMAIL, 74745,345 or send a letter and I will do my best to help you. As I stated, this configuration does work, and is the most economical way going, to get the 2068 to become a Spectrum!!!

Pete Geller 74745,345



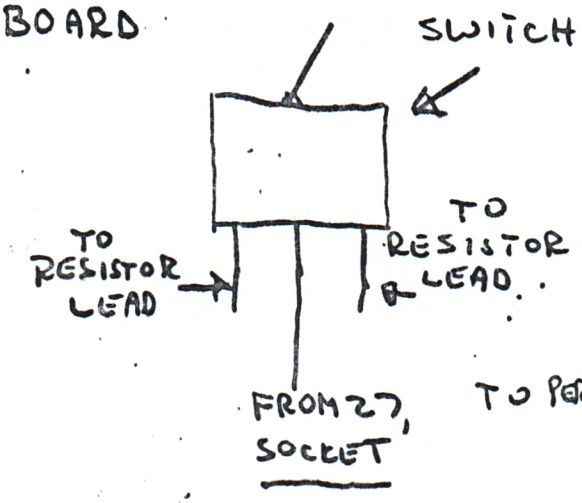
COMPUTER BASE, (CASE OPEN)

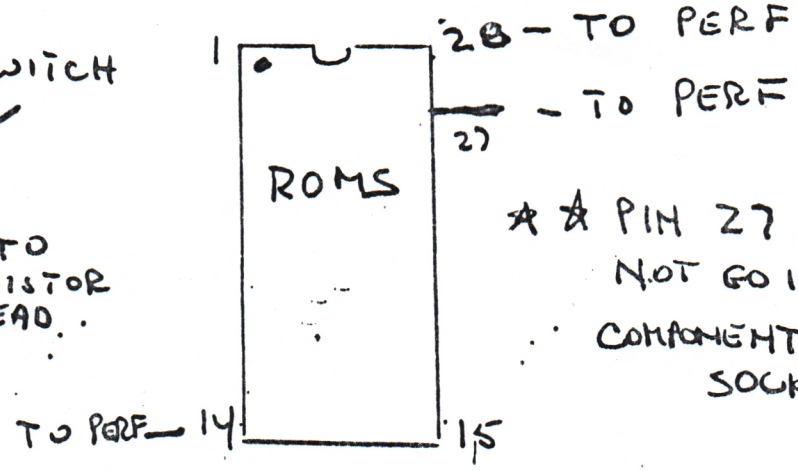


PERF. BOARD

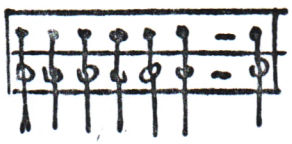
SPECIAL NOTE:

1) THE TWO LEAD FROM THE SWITC GO TO THE TWO RESISTORS THAT GO TO PIN 27 OF EITHER ROM.





★★ PIN 27 DOES NOT GO INTO COMPONENT SOCKET,



SIDE VIEW OF ROMS, PIGGY BACKED

1) ALL PINS EXCEPT 27, SOLDERED TOGETHER, PINS 27 STICK STRAIG OUT AND DO NOT TOUCH EACH OTHER